

# ENGINEERING CHANGE NOTICE

<b>DART AEROSPACE LTD</b>		Amendment Design Review (ADR) Yes/No: <b>Y</b>	<b>ECN #:</b> <b>850</b>
Date: 06.09.22	ADR Date: 06.09.15		
Job No: 00064	Created By: <i>[Signature]</i>	Checked By: <i>[Signature]</i>	
Product No: D412-702	Approved By: <i>[Signature]</i>	Approved By: <i>[Signature]</i>	
Product Name: SHOULDER HARNESS KITS	(Proj. Manager)	(Management if reqd)	

**Documents Affected:**

RELEASE DSI 9351-A, D3551-A AND D3546-A.

#	Engineering Actions	Yes	No	Responsible	To happen by:	Complete
1	Required Documents/Drawings Under Review?		X			
2	Update Blue/Pink Folder/Electronic File	X		KJ/LE	06.09.26	06.09.26 KJ/LE
3	Update DSI Folder/Electronic File	X		KJ/LE		06.09.26 KJ/LE
4	Update D-Part Master Binder	X		KJ		06.09.26 KJ
5	Update Grey Project Binder	X		KJ/LE		06.09.26 KJ
6	Update DEO/DSI Binder	X		KJ		06.09.26 KJ
7	Update Master Document List (MDL)	X		KJ		06.09.26 KJ
8	Update Document Record (DR)	X		KJ		06.09.26 KJ
9	Update Change Record Form	X		KJ		06.09.26 KJ
10	Move Electronic File	X		KJ		06.09.26 KJ
11	Notify TC of Change		X			
12	Notify FAA of Change		X			
13	Update QSI 021 (TC/FAA STC)		X			
14	Update QSI 036 (K-Kits)		X			
15	Update Accpac Database	X		KJ		06.09.26 KJ
16	Update Access Database	X		KJ		06.09.26 KJ
17	Verification ARC		X			
18	Update STC Approval List		X			
19	Update Product Development Summary		X			
20	Create/Update COSS (Estimate/BOM)	X		JLM/EC		06.09.26 KJ
21	Create/Update PPP's	X		KJ		06.09.26 KJ
22	Update Paperwork Kits in Production	X		KJ		NONE in Prod
23	Update Paperwork Kits in Stock	X		LL		06.10.25 KJ
24	Red Tag Stock with old CHG #		X			
25	Rework/Scrap Current Production	X		LL		06.10.25 KJ
26	Rework/Scrap Kits in Stock?	X		LL		
27	Update Qpulse/Laminated Dwgs		X			
28	Create/Update Controlled PDF Files	X		KJ		06.09.26 KJ
29	Create/Update FAI sheets	X		JLM		06.09.26 KJ
30	Create/Update CNC Programs	X		JLM/EC		06.09.26 KJ
31	Create/Update Tooling		X			
32	MPP required?		X			
33	Notify Previous Customers	X		BB/PM/JL		06.10.25 KJ
34	Notify Eurocopter France		X			
35						
36						

**Description / Action:**

Proceed as indicated above.

- DSI 9351-011/013/015/017 @ CHG 001

- NO CHANGE TO CHG # FOR 9-DIGIT PER SERGE SHAHBAZIAN

- INCLUDE DSI 9351 TO EXISTING & FUTURE KITS - INCLUDE DSI PARTS.

ECN Complete: *[Signature]*

Date: 07.01.16

04398

**Fax** FAKED



To: Summit Helicopter Inc.  
Attn: Richard Day

From: Holly Menard  
Sales Associate  
Dart Helicopter Services

Fax: 1 540 992 5503

Fax: 613-632-4443

Phone: 1 540 992 5500

Phone: 613-632-3336

# of pages 2 (including cover)

Email: [hmenard@dartaero.com](mailto:hmenard@dartaero.com)

Date: 11/20/2006

Subject: DSI 9351 Shoulder Harness Improvement Kit

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

Please see the attached Service Instructions for details. If you would like to receive the DSI 9351-013, please contact me and I will be pleased to provide you with this kit.

Do not hesitate to contact me if you have any questions or concerns regarding this product improvement kit.

Warm regards,

*Holly Menard*

Sales Associate

**DART Helicopter Services, LLC**

[hmenard@dartaero.com](mailto:hmenard@dartaero.com)

**[www.darthelicopterservices.com](http://www.darthelicopterservices.com)**

"we're more than just skidtubes"

**Fax** **FAKED**



To: River City Helicopters  
Attn: Maintenance Dept.

From: Holly Menard  
Sales Associate  
Dart Helicopter Services

Fax: 1 208 773 1036

Fax: 613-632-4443

Phone: 1 208 773-1111

Phone: 613-632-3336

# of pages 2 (including cover)

Email: hmenard@dartaero.com

Date: 11/20/2006

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Warm regards,

*Holly Menard*

Sales Associate

**DART Helicopter Services, LLC**

[hmenard@dartaero.com](mailto:hmenard@dartaero.com)

[www.darthelicopterservices.com](http://www.darthelicopterservices.com)

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DSI 9351-013 X1  
jack scanlon

20912 76

04376

OK.

**Holly Menard**

**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:21 AM  
**To:** 'Devlin Talkington'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear Devlin,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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Warm regards,

*Holly Menard*

Sales Associate

**DART Helicopter Services, LLC**

**Tel:** 1.613.632.3336

1.800.556.4166

**Cell:** 1.613.676.1720

**Fax:** 1.613.632.4443

[hmenard@dartaero.com](mailto:hmenard@dartaero.com)

**[www.darthelicopterservices.com](http://www.darthelicopterservices.com)**

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11/20/2006

04375

**Holly Menard**

**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:21 AM  
**To:** 'cbrown@sjhelicopters.com'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear Chris,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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Warm regards,

*Holly Menard*

Sales Associate

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**Tel:** 1.613.632.3336

1.800.556.4166

**Cell:** 1.613.676.1720

**Fax:** 1.613.632.4443

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11/20/2006

FAXED

# Fax



To: Helicopter Maintenance Corp.  
Attn: Maintenance Dept.

From: Holly Menard  
Sales Associate  
Dart Helicopter Services

Fax: 1 208 345 6719

Fax: 613-632-4443

Phone: 1 208 344 6521

Phone: 613-632-3336

# of pages 2 (including cover)

Email: [hmenard@dartaero.com](mailto:hmenard@dartaero.com)

Date: 11/20/2006

Subject: DSI 9351 Shoulder Harness Improvement Kit

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Warm regards,

*Holly Menard*

Sales Associate

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**[www.darthelicopterservices.com](http://www.darthelicopterservices.com)**

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## Holly Menard

---

**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:13 AM  
**To:** 'richie@helicopter.com'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear Richie,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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Warm regards,

*Holly Menard*

Sales Associate

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11/20/2006

## Holly Menard

---

**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:13 AM  
**To:** 'David Covert'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear David,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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Do not hesitate to contact me if you have any questions or concerns regarding this product improvement kit.

Warm regards,

*Holly Menard*

Sales Associate

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11/20/2006





**Holly Menard**

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**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:12 AM  
**To:** 'jb@aerowesthelicopters.com'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear JB,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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Do not hesitate to contact me if you have any questions or concerns regarding this product improvement kit.

Warm regards,

*Holly Menard*

Sales Associate



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1.800.556.4166

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[hmenard@dartaero.com](mailto:hmenard@dartaero.com)

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11/20/2006

## Holly Menard

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**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:16 AM  
**To:** 'helimax@goldstate.net'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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11/20/2006

## Holly Menard

---

**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:18 AM  
**To:** 'suruhqw@heliqwest.com'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear Suru,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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11/20/2006

## Holly Menard

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**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:14 AM  
**To:** 'jnorling@hillsboro-aviation.com'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear John,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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[hmenard@dartaero.com](mailto:hmenard@dartaero.com)

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11/20/2006

## Holly Menard

---

**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:18 AM  
**To:** 'greg\_k@helitrade.com'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear Greg,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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Warm regards,

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Sales Associate

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## Holly Menard

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**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:19 AM  
**To:** 'dave@pjhelicopters.com'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear Dave,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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**Holly Menard**

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**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:22 AM  
**To:** 'LEE SMITH'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

Dear Lee,

We would like to inform you that Dart Aerospace Ltd is offering a product improvement kit to customers who have recently installed a 5 Man Fwd Facing Shoulder Harness Kit P/N D412-702-023 in their aircraft.

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## Holly Menard

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**From:** Holly Menard [hmenard@dartaero.com]  
**Sent:** Monday, November 20, 2006 10:20 AM  
**To:** 'info@rogershelicopters.com'  
**Subject:** DSI 9351 Shoulder Harness Improvement Kit

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Sales Associate  
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# ENGINEERING CHANGE NOTICE

MPP

<b>DART AEROSPACE LTD</b>		Amendment Design Review (ADR) Yes/No: <b>Y</b>		<b>ECN #: 850</b>
Date: 06.09.22		ADR Date: 06.09.15		
Job No: 00064		Created By: <i>[Signature]</i>	Checked By: <i>[Signature]</i>	
Product No: D412-702		Approved By: <i>[Signature]</i>	Approved By: <i>[Signature]</i>	
Product Name: SHOULDER HARNESS KITS		(Proj. Manager)	(Management if reqd)	
Documents Affected:				

RELEASE DSI 9351-A, D3551-A AND D3546-A.

#	Engineering Actions	Yes	No	Responsible	To happen by:	Complete
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16	Update Access Database	X		KJ		06.09.26 KJ
17	Verification ARC		X			
18	Update STC Approval List		X			
19	Update Product Development Summary		X			
20	Create/Update COSS (Estimate/BOM)	X		JLM/EC		06.09.26 KJ
21	Create/Update PPP's	X		KJ		06.09.26 KJ
22	Update Paperwork Kits in Production	X		KJ		NONE IN Prod
23	Update Paperwork Kits in Stock	X		LL		06.10.26 KJ
24	Red Tag Stock with old CHG #		X			
25	Rework/Scrap Current Production	X		LL		06.10.26 KJ
26	Rework/Scrap Kits in Stock?	X		LL		06.10.26 KJ
27	Update Qpulse/Laminated Dwgs		X			
28	Create/Update Controlled PDF Files	X		KJ		06.09.26 KJ
29	Create/Update FAI sheets	X		JLM		06.09.26 KJ
30	Create/Update CNC Programs	X		JLM/EC		06.09.26 KJ
31	Create/Update Tooling		X			
32	MPP required?		X			
33	Notify Previous Customers	X		BB/PM/JL		06.10.26 KJ
34	Notify Eurocopter France		X			
35						
36						

## Description / Action:

Proceed as indicated above.

- DSI 9351-011/013/015/017 @ CHG 001
- NO CHANGE TO CHG # FOR 9-DIGIT PER SERGE SHAHBAZIAN
- INCLUDE DSI 9351 TO EXISTING & FUTURE KITS - INCLUDE DSI PARTS.

ECN Complete: *[Signature]*

Date: 07.01.16



DESIGN <i>LE</i>	DRAWN BY <i>LE</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>90</i>	APPROVED <i>[Signature]</i>	DRAWING NO. <b>DSI 9351</b>	REV. A SHEET 1 OF 1
DATE <b>06.09.15</b>		TITLE <b>SHOULDER HARNESS KIT</b>	
REV A	DATE 06.09.15	DESCRIPTION NEW ISSUE	

## **DART SERVICE INSTRUCTION**

**TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV A, B OR C**  
REF. CANADIAN STC SH04-7  
REF. FAA STC SR01997NY

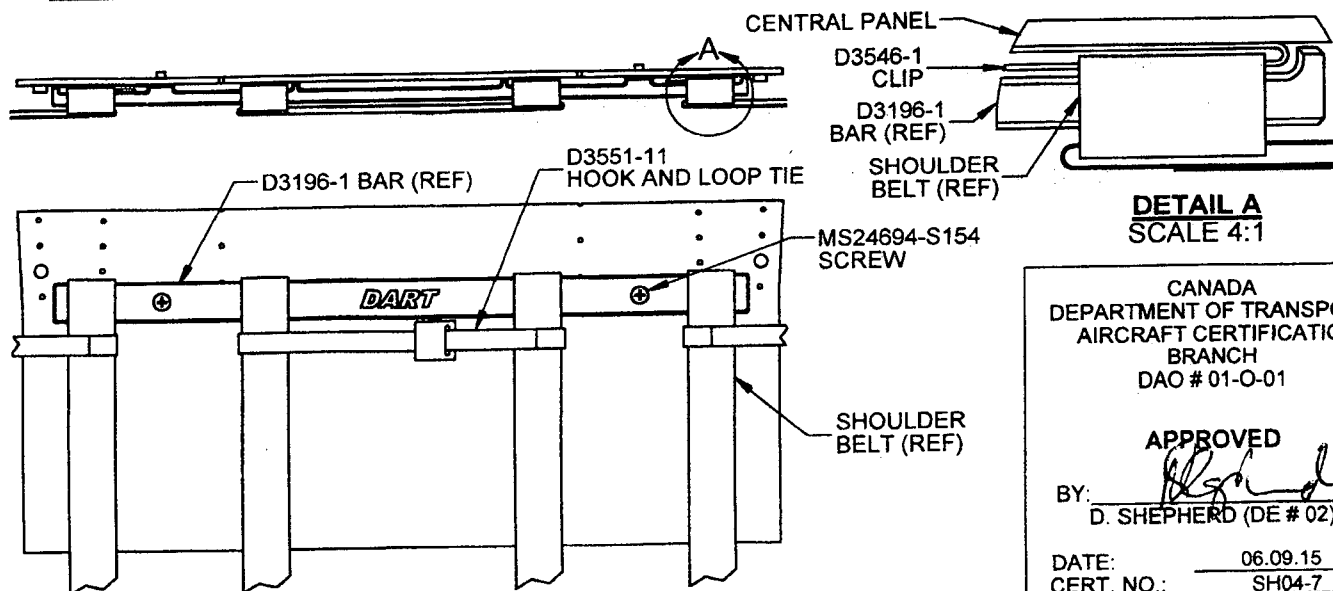
TO IMPROVE THE FIT AND VISUAL IDENTIFICATION OF SHOULDER HARNESS SETS, DSI 9351-011/-013/-015 SHOULDER HARNESS UPGRADE KITS ARE AVAILABLE FOR THE D412-702-011/-021/-013/-023/-015/-025/-017/-027 AND D214-702-035 SHOULDER HARNESS KITS AT CHANGE 1. INSTALLATION OF THESE KITS IS OPTIONAL.

FOR DSI 9351-011/-013 KITS, FOLLOW STEPS 1 AND 2. FOR DSI 9351-015/-017 KITS, FOLLOW STEP 2:

1) REMOVE THE MS24694-S152 SCREWS FROM THE D3196-1 BAR ON THE CENTRAL PANEL. RE-INSTALL THE D3196-1 BAR WITH D3546-1 CLIPS USING MS24694-S154 SCREWS AS SHOWN IN FIGURE 1. ENSURE THAT THE SHOULDER BELTS ARE LOOPED THROUGH THE CLIP AS SHOWN IN DETAIL 'A'. TORQUE SCREWS TO 100-140 in-lbs (11.3-15.8 N-m). IT IS ACCEPTABLE TO USE LONGER MS24694-SXXX SCREWS AS REQUIRED TO ENSURE THAT THE D3196-1 BAR IS PROPERLY SECURED.

2) INSTALL THE D3551-11 HOOK AND LOOP TIES THROUGH THE FRONT LOOPS OF EACH SET OF SHOULDER BELTS. INSTALLATION ON THE 4-MAN AFT FACING BENCH IS AT THE DISCRETION OF THE INSTALLER. ENSURE THAT THE 'LOOP' SIDES OF THE TIES ARE FACING OUTWARD FOR PASSENGER COMFORT. TIGHTEN OR LOOSEN THE TIES AS NEEDED (TRIMMING IS ACCEPTABLE).

QTY -011	QTY -013	QTY -015	QTY -017	P/N	DESCRIPTION	INSTALLS ON:
X				DSI 9351-011	13-MAN UPGRADE KIT	D412-702-011/-021
	X			DSI 9351-013	5-MAN UPGRADE KIT	D412-702-013/-023
		X		DSI 9351-015	5-MAN UPGRADE KIT	D214-702-035
			X	DSI 9351-017	4-MAN UPGRADE KIT	D412-702-015/-017/-025/-027
13	5	5	4	D3551-11	HOOK AND LOOP TIE	X
2	2			D3546-1	CLIP	X
2	2			MS24694-S154	SCREW	X



**FIGURE 1. KIT INSTALLATION ON CENTRAL PANEL**

**DETAIL A**  
SCALE 4:1

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 06.09.15  
CERT. NO.: SH04-7  
ISSUE NO.: 3

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cation: MAIN Main Finished Goods Location

Worksheet Creation Date: 13/03/2007 Worksheet Comment:

Item Number / Description	Picking Sequence	IC Quantity on Hand	Unit of Measure	Lot Quantity on Hand	Lot Number	Quantity Counted
D412702021	13 Man Shoulder Harness	FG 41	3.0000 EACH	1.00	25853	
				2.00	29925	
				3.00		
						011
D412702023	5 Man Shoulder Harness	FG 33	7.0000 EACH	2.00	25765	
				1.00	26074	
				4.00	30123	
				7.00		
						013
D412702025	4 Man Shoulder Harness	FG 33	8.0000 EACH	1.00	25444	
				1.00	25766	
				2.00	27249	
				4.00	30124	
				8.00		
						017

Items printed

211

Thursday, 28/09/2006 2:25:22 PM  
Linda Lacelle

## Process Sheet

Owner	: CC-DAR01 Dart Aerospace Ltd.	Drawing Name	: D412-702
Job Number	: 28754	Part Number	: Z_CUSTOM <i>ECN 850 Attached</i>
Estimate Number	: 10804	Drawing Number	: UPDATE PER DSI 9351A
P.O. Number	: <i>N/A</i>	Project Number	: <i>N/A</i>
This Issue	: 28/09/2006 S.O. No. : <i>N/A</i>	Drawing Revision	: <i>N/A</i>
Prsht Rev.	: NC	Material	: <i>N/A</i>
First Issue	: <i>N/A</i> Type : OVERHEAD	Due Date	: 05/10/2006
Previous Run	: 00015	Qty:	20 Um: Each
Written By	:		
Checked & Approved By	:		
Comment	:		

Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description :
1.0	PACKAGING 1	PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

REMOVE KITS FROM STOCK:

1 D412-702-011 B *PAS 120001*

D412-702-013 B

D412-702-015 B

D412-702-017 B

4 D412-702-021 B *B26853 3X B25853*5 D412-702-023 B *26765 2X B26017 3X*✓ D412-702-025 B *26075 2X B25444 1X B25766 1X B27249 2X ⑥*

D412-702-027 B

~~D412-702-031 B~~*035 B 26001 2 ①*~~D412-702-033 B~~

2.0	PACKAGING 1	PACKAGING RESOURCE #1
-----	-------------	-----------------------



Comment: PACKAGING RESOURCE #1

ADD TO KITS IN STOCK

NEW PAPERWORK

DSI 9351-A

*Pack 10/25*

Date: Tuesday, 13/03/2007 12:00:34 PM  
 User: Linda Lacelle

**"Where Used" Report**

Item Number: DSI9351011

In Job History

Job No.	Part Number	Seq.	Parts	S.O. No.	Date	Due Date	Cost	Employee
Item: DSI9351011								
28754	Z_CUSTOM	4.0	4.000		21/11/2006	/ /	\$385.66	LACE01
			4.000				\$385.66	
Total Records Retrieved :		1	4.000				\$385.66	

Date: Tuesday, 13/03/2007 12:02:17 PM  
 User: Linda Lacelle

**"Where Used" Report**

Item Number: DSI9351013

In Job History

Job No.	Part Number	Seq.	Parts	S.O. No.	Date	Due Date	Cost	Employee
<b>Item:</b> DSI9351013								
28754	Z_CUSTOM	5.0	4.000		21/11/2006	/ /	\$291.36	LACE01
			4.000				\$291.36	
<b>Total Records Retrieved :</b>		1	4.000				\$291.36	

Date: Tuesday, 13/03/2007 12:02:54 PM  
 User: Linda Lacelle

**"Where Used" Report**

Item Number: DSI9351015

In Job History

Job No.	Part Number	Seq.	Parts	S.O. No.	Date	Due Date	Cost	Employee
Item: DSI9351015								
28754	Z_CUSTOM	6.0	1.000		21/11/2006	/ /	\$28.13	LACE01
			1.000				\$28.13	
Total Records Retrieved :		1	1.000				\$28.13	